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<i>1.</i>	•

	Application No.	Applicant(s)	
		1.	
Notice of Allowability	10/615,777 Examiner	HIDAKA, HIDETO Art Unit	
	ANILL DULING	2024	
	ANH PHUNG	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED) or other appropriate comn RIGHTS. This application is	in this application. If not included nunication will be mailed in due co	l urse. THIS
1. This communication is responsive to the application filed	on July 10, 2003		
2. ☑ The allowed claim(s) is/are <u>1-11</u> .			
3. The drawings filed on 10 July 2003 are accepted by the E	xaminer.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Applica	tion No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE		le a reply complying with the requi	rements
5. A SUBSTITUTE OATH OR DECLARATION must be subminiformal PATENT APPLICATION (PTO-152) which give			TICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Revi - 's Amendment / Comment 1.84(c)) should be written on	or in the Office action of the drawings in the front (not the b	ack) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of i	nformal Patent Application (PTO-1	52)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO 948)		Summary (PTO-413),	
3. 🔀 Information Disclosure Statements (PTO 1449 or PTO/SB/		./Mail Date s Amendment/Comment	
Paper No./Mail Date July 10, 2004 4. Examiner's Comment Regarding Requirement for Deposit	8. ⋈ Examiner'	s Statement of Reasons for Allowa	ance
of Biological Material	9. ⊠ Other <u>Sea</u>		
		h Phung	
		ANH PHUNG	

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Detailed Action

1. In response to the U.S. Application Serial No. 10/615,777 filed on July 10, 2003, claims **1-11** are pending in the application.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

This office acknowledges receipt of the following items from the Applicant:
 Information Disclosure Statement (IDS) filed July 10, 2003.
 Information disclosed and listed on PTO 1449 was considered.

Examiner's Statement of Reasons for Allowance

4. Claims **1-11** are allowed.

Ooishi (US 6,714,443), Nahas (US 6,714,442), Gogl et al. (US 6,577,528), Swanson et al. (US 6,493,259) and Perner et al. (US 6,256,224) disclose a magnetic memory device having bit line drive circuits similar to that of the present application, but fail to teach:

"a plurality of bit line drive circuits disposed corresponding to the bit lines and supplying currents according to write data to a corresponding bit line, each bit line drive circuit including; a first drive circuit for supplying a first current to a corresponding bit line in accordance with write data to an adjacent column when the adjacent column is selected; and a second drive circuit for supplying a second current to the corresponding

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bit line in accordance with the write data to the corresponding column when the corresponding column is selected" as claimed in the independent claim 1; or

"a plurality of bit lines, disposed corresponding to the columns of said plurality of magnetic memory cells, each connecting to the memory cells of a corresponding column; a column selecting circuit for selecting a predetermined number of memory cell columns in parallel from the columns of said plurality of magnetic memory cell in accordance with an address signal, said any adjacent columns in said predetermined number of memory cell columns sandwiching at least one bit line; and a plurality of bit line drive circuits disposed corresponding to the bit lines and supplying a current to a corresponding bit line in accordance with write data and a column selection signal from said column selecting circuit" as claimed in the independent claim 9.

Any comments considered necessary by applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comment on Statement of Reasons for Allowance".

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **ANH PHUNG** whose telephone number is **(571) 272-1883**. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD ELMS**, can be reached on **(571) 272-1869**. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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AKP

ANH PHUNG PRIMARY EXAMINER